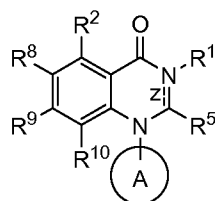


## Amendments to the Claims

1. (Canceled) A compound of the structure:



or a pharmaceutically acceptable salt thereof, wherein

z is a single or double bond;

A is

- a) an aryl ring, wherein any stable aryl ring atom is independently unsubstituted or substituted with

- 1) halogen,
- 2) NO<sub>2</sub>,
- 3) CN,
- 4) CR<sup>46</sup>=C(R<sup>47</sup>R<sup>48</sup>)<sub>2</sub>,
- 5) C≡C R<sup>46</sup>,
- 6) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>OR<sup>46</sup>,
- 7) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>R<sup>47</sup>),
- 8) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub> C(O)R<sup>46</sup>,
- 9) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub> C(O)OR<sup>46</sup>,
- 10) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>R<sup>46</sup>,
- 11) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub> S(O)<sub>0-2</sub>R<sup>61</sup>,
- 12) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub> S(O)<sub>0-2</sub>N(R<sup>46</sup>R<sup>47</sup>),
- 13) OS(O)<sub>0-2</sub>R<sup>61</sup>,
- 14) N(R<sup>46</sup>)C(O)R<sup>47</sup>,
- 15) N(R<sup>46</sup>)S(O)<sub>0-2</sub>R<sup>61</sup>,
- 16) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)R<sup>61</sup>,
- 17) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)R<sup>61</sup>OR<sup>47</sup>,
- 18) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)(CR<sup>k</sup>R<sup>l</sup>)<sub>s</sub>C(O)N(R<sup>47</sup>R<sup>48</sup>),
- 19) N(R<sup>46</sup>)(CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>R<sup>61</sup>,
- 20) N(R<sup>46</sup>)(CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>47</sup>R<sup>48</sup>),
- 21) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>C(O)N(R<sup>47</sup>R<sup>48</sup>), or
- 22) oxo, or

b) a heteroaryl ring selected from the group consisting of

a 5-membered unsaturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting of N, O or S,

a 6-membered unsaturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting of N, O and S, and

a 9- or 10-membered unsaturated bicyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting of N, O or S;

wherein any stable S heteroaryl ring atom is unsubstituted or mono- or di-substituted with oxo, and any stable C or N heteroaryl ring atom is independently unsubstituted or substituted with

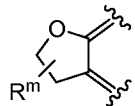
- 1) halogen,
- 2) NO<sub>2</sub>,
- 3) CN,
- 4) CR<sup>46</sup>=C(R<sup>47</sup>R<sup>48</sup>)<sub>2</sub>,
- 5) C≡CR<sup>46</sup>,
- 6) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>OR<sup>46</sup>,
- 7) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>R<sup>47</sup>),
- 8) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>C(O)R<sup>46</sup>,
- 9) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>C(O)OR<sup>46</sup>,
- 10) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>R<sup>46</sup>,
- 11) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>S(O)<sub>0-2</sub>R<sup>61</sup>,
- 12) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>S(O)<sub>0-2</sub>N(R<sup>46</sup>R<sup>47</sup>),
- 13) OS(O)<sub>0-2</sub>R<sup>61</sup>,
- 14) N(R<sup>46</sup>)C(O)R<sup>47</sup>,
- 15) N(R<sup>46</sup>)S(O)<sub>0-2</sub>R<sup>61</sup>,
- 16) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)R<sup>61</sup>,
- 17) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)R<sup>61</sup>OR<sup>47</sup>,
- 18) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)(CR<sup>k</sup>R<sup>l</sup>)<sub>s</sub>C(O)N(R<sup>47</sup>R<sup>48</sup>),
- 19) N(R<sup>46</sup>)(CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>R<sup>61</sup>,
- 20) N(R<sup>46</sup>)(CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>47</sup>R<sup>48</sup>),
- 21) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>C(O)N(R<sup>47</sup>R<sup>48</sup>), or
- 22) oxo;

R<sup>2</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup> are independently selected from:

- 1) hydrogen,
- 2) halogen,

- 3) NO<sub>2</sub>,
- 4) CN,
- 5) CR<sup>43</sup>=C(R<sup>44</sup>R<sup>45</sup>),
- 6) C≡CR<sup>43</sup>,
- 7) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>OR<sup>43</sup>,
- 8) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>N(R<sup>43</sup>R<sup>44</sup>),
- 9) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>C(O)R<sup>43</sup>,
- 10) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>C(O)OR<sup>43</sup>,
- 11) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>R<sup>43</sup>,
- 12) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>S(O)<sub>0-2</sub>R<sup>60</sup>,
- 13) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>S(O)<sub>0-2</sub>N(R<sup>43</sup>R<sup>44</sup>),
- 14) OS(O)<sub>0-2</sub>R<sup>60</sup>,
- 15) N(R<sup>43</sup>)C(O)R<sup>44</sup>,
- 16) N(R<sup>43</sup>)S(O)<sub>0-2</sub>R<sup>60</sup>,
- 17) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>N(R<sup>43</sup>)R<sup>60</sup>,
- 18) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>N(R<sup>43</sup>)R<sup>60</sup>OR<sup>44</sup>,
- 19) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>N(R<sup>43</sup>)(CR<sup>g</sup>R<sup>h</sup>)<sub>q</sub>C(O)N(R<sup>44</sup>R<sup>45</sup>),
- 20) N(R<sup>43</sup>)(CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>R<sup>60</sup>,
- 21) N(R<sup>43</sup>)(CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>N(R<sup>44</sup>R<sup>45</sup>), and
- 22) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>C(O)N(R<sup>43</sup>R<sup>44</sup>),

or R<sup>2</sup> and R<sup>8</sup> are independently as defined above, and R<sup>9</sup> and R<sup>10</sup>, together with the atoms to which they are attached, form the ring



, where R<sup>m</sup> is C<sub>1-6</sub>alkyl;

R<sup>1</sup> is selected from the group consisting of

- 1) hydrogen,
- 2) (CR<sup>a</sup>R<sup>b</sup>)<sub>n</sub>R<sup>40</sup>
- 3) (CR<sup>a</sup>R<sup>b</sup>)<sub>n</sub>OR<sup>40</sup>,
- 4) (CR<sup>a</sup>R<sup>b</sup>)<sub>n</sub>N(R<sup>40</sup>R<sup>41</sup>),
- 5) (CR<sup>a</sup>R<sup>b</sup>)<sub>n</sub>N(R<sup>40</sup>)C(O)OR<sup>41</sup>,
- 6) (CR<sup>a</sup>R<sup>b</sup>)<sub>n</sub>N(R<sup>40</sup>)(CR<sup>c</sup>R<sup>d</sup>)<sub>2</sub>N(R<sup>41</sup>)C(O)R<sup>49</sup>,
- 7) C<sub>3-8</sub> cycloalkyl,
- 8) (CR<sup>a</sup>R<sup>b</sup>)<sub>n</sub>C(O)OR<sup>40</sup>,
- 9) (CR<sup>a</sup>R<sup>b</sup>)<sub>n</sub>N(R<sup>40</sup>)(CR<sup>c</sup>R<sup>d</sup>)<sub>1-3</sub>R<sup>41</sup>,
- 10) (CR<sup>a</sup>R<sup>b</sup>)<sub>n</sub>S(O)<sub>0-2</sub>R<sup>6</sup>,

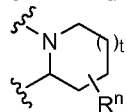
- 11)  $(CR^aR^b)_nS(O)_{0-2}N(R^{40}R^{41})$ ,
- 12)  $(CR^aR^b)_nN(R^{40})R^6OR^{41}$ ,
- 13)  $(CR^aR^b)_nN(R^{40})(CR^cR^d)_{0-6}C(O)N(R^{41}R^{42})$ ;

or  $R^1$  is absent when  $z$  is a double bond

$R^5$  is selected from the group consisting of

- 1) C<sub>1-6</sub> alkyl,
- 2) =O
- 3) aryl
- 4) C<sub>3-10</sub> cycloalkyl
- 5) C<sub>1-6</sub>alkylene-C(O) $R^{11}$ ,
- 6) C<sub>1-6</sub>alkylene-C(O) $R^{13}$
- 7) C(O) $R^{11}$ ,
- 8) C(O) $R^{13}$ ,
- 9) C(O)OR<sup>11</sup>,
- 10) C(O)OR<sup>13</sup>,
- 11) C(O)N( $R^{11}R^{11}$ ),
- 12) C(O)N( $R^{13}R^{13}$ ),
- 13) C(O)N( $R^{11}R^{13}$ ),
- 14) CN,
- 15) NHC(O) $R^{11}$ ,
- 16) NHC(O)CF<sub>3</sub>, and
- 17) NHC(O)C<sub>2-6</sub>alkyl,

or  $R^1$  and  $R^5$ , together with atoms to which they are attached, form



where  $t$  is 0, 1, 2, or 3, and  $R^n$  is selected from the group consisting of hydrogen, -ORP, NRPR<sup>q</sup>, C(O)NRPR<sup>q</sup>, or C(O)ORP, wherein RP and R<sup>q</sup> are independently selected from the group consisting of C<sub>1-6</sub> alkyl and aryl;

$R^{11}$  is selected from the group consisting of

- 1) aryl, and
- 2) an unsubstituted or substituted heterocyclic ring consisting of a 4-6 membered unsaturated or saturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting N, O and S, and a 9- or 10-membered unsaturated or saturated bicyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting or N, O or S; and

R<sup>13</sup> is selected from the group consisting of

- 1) C<sub>1-6</sub>alkyl,
- 2) C<sub>1-6</sub>alkyloxy,
- 3) C<sub>1-6</sub>alkenyl,
- 4) C<sub>1-6</sub>alkynyl, and
- 5) CF<sub>3</sub>;

R<sup>a</sup>, R<sup>b</sup>, R<sup>c</sup>, R<sup>d</sup>, R<sup>e</sup>, R<sup>f</sup>, R<sup>g</sup>, R<sup>h</sup>, R<sup>i</sup>, R<sup>j</sup>, R<sup>k</sup>, and R<sup>l</sup> are independently selected from the group consisting of:

- 1) hydrogen,
- 2) C<sub>1-6</sub> alkyl,
- 3) halogen,
- 4) aryl,
- 5) R<sup>80</sup>,
- 6) C<sub>3-10</sub> cycloalkyl, and
- 7) OR<sup>4</sup>,

said alkyl, aryl, and cycloalkyl being unsubstituted, monosubstituted with R<sup>7</sup>, disubstituted with R<sup>7</sup> and R<sup>15</sup>, trisubstituted with R<sup>7</sup>, R<sup>15</sup> and R<sup>16</sup>, or tetrasubstituted with R<sup>7</sup>, R<sup>15</sup>, R<sup>16</sup> and R<sup>17</sup>;

R<sup>4</sup>, R<sup>40</sup>, R<sup>41</sup>, R<sup>42</sup>, R<sup>43</sup>, R<sup>44</sup>, R<sup>45</sup>, R<sup>46</sup>, R<sup>47</sup>, R<sup>48</sup>, R<sup>49</sup>, R<sup>51</sup>, and R<sup>52</sup> are independently selected from:

- 1) hydrogen,
- 2) C<sub>1-6</sub> alkyl,
- 3) C<sub>3-10</sub> cycloalkyl,
- 4) aryl,
- 5) R<sup>81</sup>,
- 6) CF<sub>3</sub>,
- 7) C<sub>2-6</sub> alkenyl, and
- 8) C<sub>2-6</sub> alkynyl,

said alkyl, aryl, and cycloalkyl is unsubstituted, mono-substituted with R<sup>18</sup>, di-substituted with R<sup>18</sup> and R<sup>19</sup>, tri-substituted with R<sup>18</sup>, R<sup>19</sup> and R<sup>20</sup>, or tetra-substituted with R<sup>18</sup>, R<sup>19</sup>, R<sup>20</sup> and R<sup>21</sup>;

R<sup>6</sup>, R<sup>60</sup>, R<sup>61</sup>, and R<sup>63</sup> are independently selected from:

- 1) C<sub>1-6</sub> alkyl,
- 2) aryl,
- 3) R<sup>83</sup>, and
- 4) C<sub>3-10</sub> cycloalkyl;

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said alkyl, aryl, and cycloalkyl is unsubstituted, mono-substituted with R<sup>26</sup>, di-substituted with R<sup>26</sup> and R<sup>27</sup>, tri-substituted with R<sup>26</sup>, R<sup>27</sup> and R<sup>28</sup>, or tetra-substituted with R<sup>26</sup>, R<sup>27</sup>, R<sup>28</sup> and R<sup>29</sup>;

R<sup>7</sup>, R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup>, R<sup>18</sup>, R<sup>19</sup>, R<sup>20</sup>, R<sup>21</sup>, R<sup>26</sup>, R<sup>27</sup>, R<sup>28</sup>, and R<sup>29</sup> are independently selected from:

- 1) C<sub>1</sub>-C<sub>6</sub> alkyl,
- 2) halogen,
- 3) OR<sup>51</sup>,
- 4) CF<sub>3</sub>,
- 5) aryl,
- 6) C<sub>3</sub>-C<sub>10</sub> cycloalkyl,
- 7) R<sup>84</sup>,
- 8) S(O)<sub>0-2</sub>N(R<sup>51</sup>R<sup>52</sup>),
- 9) C(O)OR<sup>51</sup>,
- 10) C(O)R<sup>51</sup>,
- 11) CN,
- 12) C(O)N(R<sup>51</sup>R<sup>52</sup>),
- 13) N(R<sup>51</sup>)C(O)R<sup>52</sup>,
- 14) S(O)<sub>0-2</sub>R<sup>63</sup>,
- 15) NO<sub>2</sub>, and
- 16) N(R<sup>51</sup>R<sup>52</sup>);

R<sup>80</sup>, R<sup>81</sup>, R<sup>83</sup> and R<sup>84</sup> are independently selected from a group of unsubstituted or substituted heterocyclic rings consisting of a 4-6 membered unsaturated or saturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting N, O and S, and a 9- or 10-membered unsaturated or saturated bicyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting or N, O or S; and

n, p, q, r, and s are independently 0, 1, 2, 3, 4, 5 or 6, provided that, when R<sup>9</sup> is hydrogen, A is substituted as defined above.

2. (Canceled) A compound of Claim 1, or a pharmaceutically acceptable salt thereof, wherein A is an aryl ring selected from phenyl, unsubstituted or substituted as in Claim 1, or a heteroaryl ring, unsubstituted or substituted as in Claim 1, selected from the group consisting of pyridine, pyrimidine, pyrazine, pyridazine, indole, pyrrolopyridine, benzimidazole, benzoxazole, benzothiazole, and benzoxadiazole;

R<sup>2</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup> are independently selected from the group consisting of:

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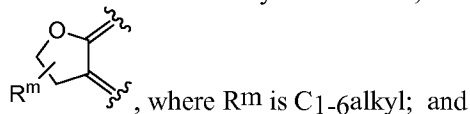
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- 1) hydrogen,
- 2) halogen,
- 3) OR<sup>43</sup>, and
- 4) (CR<sup>c</sup>R<sup>f</sup>)<sub>p</sub>R<sup>43</sup>,

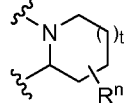
or R<sup>2</sup> and R<sup>8</sup> are independently as defined above, and R<sup>9</sup> and R<sup>10</sup>, together with the atoms to which they are attached, form the ring



R<sup>1</sup> is selected from the group consisting of

- 1) hydrogen,
- 2) (CR<sup>a</sup>R<sup>b</sup>)<sub>1-2</sub>R<sup>40</sup>
- 3) (CR<sup>a</sup>R<sup>b</sup>)<sub>1-2</sub>OR<sup>40</sup>,
- 4) (CR<sup>a</sup>R<sup>b</sup>)<sub>1-2</sub>N(R<sup>40</sup>R<sup>41</sup>),
- 5) (CR<sup>a</sup>R<sup>b</sup>)<sub>1-2</sub>N(R<sup>40</sup>)C(O)OR<sup>41</sup>,
- 6) (CR<sup>a</sup>R<sup>b</sup>)<sub>1-2</sub>N(R<sup>40</sup>)(CR<sup>c</sup>R<sup>d</sup>)<sub>2</sub>N(R<sup>41</sup>)C(O)R<sup>49</sup>,
- 7) (CR<sup>a</sup>R<sup>b</sup>)<sub>1-2</sub>C(O)OR<sup>40</sup>,
- 8) (CR<sup>a</sup>R<sup>b</sup>)<sub>1-2</sub>N(R<sup>40</sup>)(CR<sup>c</sup>R<sup>d</sup>)<sub>1-3</sub>R<sup>41</sup>, and
- 9) cyclopropyl,

or R<sup>1</sup> and R<sup>5</sup>, together with atoms to which they are attached, form



where t is 0, 1, 2, or 3, and R<sup>n</sup> is selected from the group consisting of hydrogen, -ORP, NRPR<sup>q</sup>, C(O)NRPR<sup>q</sup>, or C(O)ORP, wherein RP and R<sup>q</sup> are independently selected from the group consisting of C<sub>1-6</sub> alkyl and aryl.

3. (Canceled) A compound of Claim 2, or a pharmaceutically acceptable salt thereof, wherein R<sup>2</sup>, R<sup>8</sup>, R<sup>9</sup>, and R<sup>10</sup> are independently selected from the group consisting of hydrogen and -OR<sup>43</sup>.

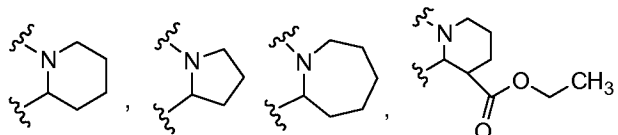
4. (Canceled) A compound of Claim 3, or a pharmaceutically acceptable salt thereof, wherein A is selected from the group consisting of A is phenyl, fluorophenyl and chlorophenyl.

5. (Canceled) A compound of Claim 4, or a pharmaceutically acceptable salt thereof, wherein

R<sup>1</sup> is selected from the group consisting of C<sub>1-6</sub>alkyl and C<sub>3-10</sub> cycloalkyl, or R<sup>1</sup> is absent when z is a double bond;

R<sup>5</sup> is selected from the group consisting of C<sub>1-6</sub> alkyl, =O, aryl, and C<sub>3-10</sub> cycloalkyl;

or R<sup>1</sup> and R<sup>5</sup> together with the atoms to which they are attached, form



6. (Withdrawn) A compound of Claim 5, or a pharmaceutically acceptable salt thereof, selected from the group consisting of

5-(3-fluorophenyl)-3-methoxy-5,5a,6,7,8,9-hexahydro-11H-pyrido[2,1-b]quinazolin-11-one,

(5,6-cis)-5-(3-fluorophenyl)-3-methoxy-11-oxo-5,6,7,8,9,11-hexahydro-5aH-pyrido[2,1-b]quinazoline-6-carboxylate,

ethyl (5,6-cis)-11-oxo-5-phenyl-5,6,7,8,9,11-hexahydro-5aH-pyrido[2,1-b]quinazoline-6-carboxylate,

7-methoxy-2,3-dimethyl-1-phenyl-2,3-dihydroquinazolin-4(1H)-one,

6-methoxy-4-phenyl-2,3,3a,4-tetrahydropyrrolo[2,1-b]quinazolin-9(1H)-one,

3-methoxy-5-phenyl-5,5a,6,7,8,9-hexahydro-11H-pyrido[2,1-b]quinazolin-11-one,

3-methoxy-5-phenyl-5a,6,7,8,9,10-hexahydroazepino[2,1-b]quinazolin-12(5H)-one,

7-methoxy-2-methyl-4-oxo-1-phenyl-1,4-dihydroquinazolin-1-ium chloride,

2-tert-butyl-7-methoxy-1-phenylquinazolin-4(1H)-one,

2-cyclohexyl-7-methoxy-1-phenylquinazolin-4(1H)-one, and

3-cyclopropyl-7-methoxy-1-phenylquinazoline-2,4(1H,3H)-dione.



7. (Withdrawn) A method of treating a condition in a mammal, the treatment of which is effected or facilitated by  $K_V1.5$  inhibition, which comprises administering a compound of Claim 1 in an amount that is effective at inhibiting  $K_V1.5$ .
8. (Withdrawn) A method of Claim 7, wherein the condition is cardiac arrhythmia.
9. (Withdrawn) A method of Claim 8, wherein the cardiac arrhythmia is atrial fibrillation.
10. (Withdrawn) A method of Claim 8, wherein the cardiac arrhythmia is selected from the group consisting of atrial flutter, atrial arrhythmia and supraventricular tachycardia.
11. (Withdrawn) A method of preventing a condition in a mammal, the prevention of which is effected or facilitated by  $K_V1.5$  inhibition, which comprises administering a compound of Claim 1 in an amount that is effective at inhibiting  $K_V1.5$ .
12. (Withdrawn) A method of Claim 11, wherein the condition is cardiac arrhythmia.
13. (Withdrawn) A method of Claim 12, wherein the cardiac arrhythmia is atrial fibrillation.
14. (Withdrawn) A method of Claim 12, wherein the cardiac arrhythmia is selected from the group consisting of atrial flutter, atrial arrhythmia and supraventricular tachycardia.
15. (Withdrawn) A method of Claim 11, wherein the condition is a thromboembolic event.
16. (Withdrawn) A method of Claim 15, wherein the thromboembolic event is a stroke.
17. (Withdrawn) A method of Claim 11, wherein the condition is congestive heart failure.

18. (Canceled) A pharmaceutical formulation comprising a pharmaceutically acceptable carrier and the compound Claim 1 or a pharmaceutically acceptable crystal form or hydrate thereof.

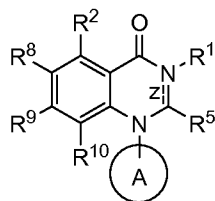
19. (Canceled) A pharmaceutical composition made by combining the compound of Claim 1 and a pharmaceutically acceptable carrier.

20. (Withdrawn) A method of treating cardiac arrhythmia comprising administering a compound of Claim 1 with a compound selected from one of the classes of compounds consisting of antiarrhythmic agents having Kv1.5 blocking activities, ACE inhibitors, angiotensin II antagonists, cardiac glycosides, L-type calcium channel blockers, T-type calcium channel blockers, selective and nonselective beta blockers, endothelin antagonists, thrombin inhibitors, aspirin, nonselective NSAIDs, warfarin, factor Xa inhibitors, low molecular weight heparin, unfractionated heparin, clopidogrel, ticlopidine, IIb/IIIa receptor antagonists, 5HT receptor antagonists, integrin receptor antagonists, thromboxane receptor antagonists, TAFI inhibitors and P2T receptor antagonists.

21. (Withdrawn) A method for inducing a condition of normal sinus rhythm in a patient having atrial fibrillation, which comprises treating the patient with a compound of Claim 1.

22. (Withdrawn) A method for treating tachycardia in a patient which comprises treating the patient with an antitachycardia device in combination with a compound of Claim 1.

23. (New) A compound of having the formula



wherein

or a pharmaceutically acceptable salt thereof, wherein

z is a single or double bond;

A is an aryl ring, wherein any stable aryl ring atom is independently unsubstituted or substituted with

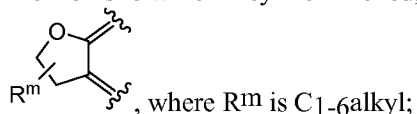
- 1) halogen,
- 2) NO<sub>2</sub>,
- 3) CN,
- 4) CR<sup>46</sup>=C(R<sup>47</sup>R<sup>48</sup>)<sub>2</sub>,
- 5) C≡C R<sup>46</sup>,
- 6) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>OR<sup>46</sup>,
- 7) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>R<sup>47</sup>),
- 8) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>C(O)R<sup>46</sup>,
- 9) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>C(O)OR<sup>46</sup>,
- 10) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>R<sup>46</sup>,
- 11) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>S(O)<sub>0-2</sub>R<sup>61</sup>,
- 12) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>S(O)<sub>0-2</sub>N(R<sup>46</sup>R<sup>47</sup>),
- 13) OS(O)<sub>0-2</sub>R<sup>61</sup>,
- 14) N(R<sup>46</sup>)C(O)R<sup>47</sup>,
- 15) N(R<sup>46</sup>)S(O)<sub>0-2</sub>R<sup>61</sup>,
- 16) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)R<sup>61</sup>,
- 17) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)R<sup>61</sup>OR<sup>47</sup>,
- 18) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>46</sup>)(CR<sup>k</sup>R<sup>l</sup>)<sub>s</sub>C(O)N(R<sup>47</sup>R<sup>48</sup>),
- 19) N(R<sup>46</sup>)(CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>R<sup>61</sup>,
- 20) N(R<sup>46</sup>)(CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>N(R<sup>47</sup>R<sup>48</sup>),
- 21) (CR<sup>i</sup>R<sup>j</sup>)<sub>r</sub>C(O)N(R<sup>47</sup>R<sup>48</sup>), or
- 22) oxo,

R<sup>2</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup> are independently selected from:

- 1) hydrogen,
- 2) halogen,
- 3) NO<sub>2</sub>,
- 4) CN,
- 5) CR<sup>43</sup>=C(R<sup>44</sup>R<sup>45</sup>),
- 6) C≡CR<sup>43</sup>,
- 7) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>OR<sup>43</sup>,
- 8) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>N(R<sup>43</sup>R<sup>44</sup>),
- 9) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>C(O)R<sup>43</sup>,
- 10) (CR<sup>e</sup>R<sup>f</sup>)<sub>p</sub>C(O)OR<sup>43</sup>,

- 11)  $(\text{CR}^{\text{eRf}})_p\text{R}^{43}$ ,
- 12)  $(\text{CR}^{\text{eRf}})_p\text{S}(\text{O})_{0-2}\text{R}^{60}$ ,
- 13)  $(\text{CR}^{\text{eRf}})_p\text{S}(\text{O})_{0-2}\text{N}(\text{R}^{43}\text{R}^{44})$ ,
- 14)  $\text{OS}(\text{O})_{0-2}\text{R}^{60}$ ,
- 15)  $\text{N}(\text{R}^{43})\text{C}(\text{O})\text{R}^{44}$ ,
- 16)  $\text{N}(\text{R}^{43})\text{S}(\text{O})_{0-2}\text{R}^{60}$ ,
- 17)  $(\text{CR}^{\text{eRf}})_p\text{N}(\text{R}^{43})\text{R}^{60}$ ,
- 18)  $(\text{CR}^{\text{eRf}})_p\text{N}(\text{R}^{43})\text{R}^{60}\text{OR}^{44}$ ,
- 19)  $(\text{CR}^{\text{eRf}})_p\text{N}(\text{R}^{43})(\text{CR}^{\text{gRh}})_q\text{C}(\text{O})\text{N}(\text{R}^{44}\text{R}^{45})$ ,
- 20)  $\text{N}(\text{R}^{43})(\text{CR}^{\text{eRf}})_p\text{R}^{60}$ ,
- 21)  $\text{N}(\text{R}^{43})(\text{CR}^{\text{eRf}})_p\text{N}(\text{R}^{44}\text{R}^{45})$ , and
- 22)  $(\text{CR}^{\text{eRf}})_p\text{C}(\text{O})\text{N}(\text{R}^{43}\text{R}^{44})$ ,

or  $\text{R}^2$  and  $\text{R}^8$  are independently as defined above, and  $\text{R}^9$  and  $\text{R}^{10}$ , together with the atoms to which they are attached, form the ring



$\text{R}^1$  is selected from the group consisting of

- 1) hydrogen,
- 2)  $(\text{CR}^{\text{aRb}})_n\text{R}^{40}$
- 3)  $(\text{CR}^{\text{aRb}})_n\text{OR}^{40}$ ,
- 4)  $(\text{CR}^{\text{aRb}})_n\text{N}(\text{R}^{40}\text{R}^{41})$ ,
- 5)  $(\text{CR}^{\text{aRb}})_n\text{N}(\text{R}^{40})\text{C}(\text{O})\text{OR}^{41}$ ,
- 6)  $(\text{CR}^{\text{aRb}})_n\text{N}(\text{R}^{40})(\text{CR}^{\text{cRd}})_2\text{N}(\text{R}^{41})\text{C}(\text{O})\text{R}^{49}$ ,
- 7)  $\text{C}_{3-8}$  cycloalkyl,
- 8)  $(\text{CR}^{\text{aRb}})_n\text{C}(\text{O})\text{OR}^{40}$ ,
- 9)  $(\text{CR}^{\text{aRb}})_n\text{N}(\text{R}^{40})(\text{CR}^{\text{cRd}})_{1-3}\text{R}^{41}$ ,
- 10)  $(\text{CR}^{\text{aRb}})_n\text{S}(\text{O})_{0-2}\text{R}^6$ ,
- 11)  $(\text{CR}^{\text{aRb}})_n\text{S}(\text{O})_{0-2}\text{N}(\text{R}^{40}\text{R}^{41})$ ,
- 12)  $(\text{CR}^{\text{aRb}})_n\text{N}(\text{R}^{40})\text{R}^6\text{OR}^{41}$ ,
- 13)  $(\text{CR}^{\text{aRb}})_n\text{N}(\text{R}^{40})(\text{CR}^{\text{cRd}})_{0-6}\text{C}(\text{O})\text{N}(\text{R}^{41}\text{R}^{42})$ ;

or  $\text{R}^1$  is absent when  $z$  is a double bond

$\text{R}^5$  is selected from the group consisting of

- 1)  $\text{C}_{1-6}$  alkyl,
- 2)  $=\text{O}$
- 3) aryl

- 4) C<sub>3-10</sub> cycloalkyl
- 5) C<sub>1-6</sub>alkylene-C(O)R<sup>11</sup>,
- 6) C<sub>1-6</sub>alkylene-C(O)R<sup>13</sup>
- 7) C(O)R<sup>11</sup>,
- 8) C(O)R<sup>13</sup>,
- 9) C(O)OR<sup>11</sup>,
- 10) C(O)OR<sup>13</sup>,
- 11) C(O)N(R<sup>11</sup>R<sup>11</sup>),
- 12) C(O)N(R<sup>13</sup>R<sup>13</sup>),
- 13) C(O)N(R<sup>11</sup>R<sup>13</sup>),
- 14) CN,
- 15) NHC(O)R<sup>11</sup>,
- 16) NHC(O)CF<sub>3</sub>, and
- 17) NHC(O)C<sub>2-6</sub>alkyl;

R<sup>11</sup> is selected from the group consisting of

- 1) aryl, and
- 2) an unsubstituted or substituted heterocyclic ring consisting of a 4-6 membered unsaturated or saturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting N, O and S, and a 9- or 10-membered unsaturated or saturated bicyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting or N, O or S; and

R<sup>13</sup> is selected from the group consisting of

- 1) C<sub>1-6</sub>alkyl,
- 2) C<sub>1-6</sub>alkyloxy,
- 3) C<sub>1-6</sub>alkenyl,
- 4) C<sub>1-6</sub>alkynyl, and
- 5) CF<sub>3</sub>;

R<sup>a</sup>, R<sup>b</sup>, R<sup>c</sup>, R<sup>d</sup>, R<sup>e</sup>, R<sup>f</sup>, R<sup>g</sup>, R<sup>h</sup>, R<sup>i</sup>, R<sup>j</sup>, R<sup>k</sup>, and R<sup>l</sup> are independently selected from the group consisting of:

- 1) hydrogen,
- 2) C<sub>1-6</sub> alkyl,
- 3) halogen,
- 4) aryl,
- 5) R<sup>80</sup>,
- 6) C<sub>3-10</sub> cycloalkyl, and

7) OR<sup>4</sup>,

said alkyl, aryl, and cycloalkyl being unsubstituted, monosubstituted with R<sup>7</sup>, disubstituted with R<sup>7</sup> and R<sup>15</sup>, trisubstituted with R<sup>7</sup>, R<sup>15</sup> and R<sup>16</sup>, or tetrasubstituted with R<sup>7</sup>, R<sup>15</sup>, R<sup>16</sup> and R<sup>17</sup>;

R<sup>4</sup>, R<sup>40</sup>, R<sup>41</sup>, R<sup>42</sup>, R<sup>43</sup>, R<sup>44</sup>, R<sup>45</sup>, R<sup>46</sup>, R<sup>47</sup>, R<sup>48</sup>, R<sup>49</sup>, R<sup>51</sup>, and R<sup>52</sup> are independently selected from:

- 1) hydrogen,
- 2) C<sub>1</sub>-C<sub>6</sub> alkyl,
- 3) C<sub>3</sub>-C<sub>10</sub> cycloalkyl,
- 4) aryl,
- 5) R<sup>81</sup>,
- 6) CF<sub>3</sub>,
- 7) C<sub>2</sub>-C<sub>6</sub> alkenyl, and
- 8) C<sub>2</sub>-C<sub>6</sub> alkynyl,

said alkyl, aryl, and cycloalkyl is unsubstituted, mono-substituted with R<sup>18</sup>, di-substituted with R<sup>18</sup> and R<sup>19</sup>, tri-substituted with R<sup>18</sup>, R<sup>19</sup> and R<sup>20</sup>, or tetra-substituted with R<sup>18</sup>, R<sup>19</sup>, R<sup>20</sup> and R<sup>21</sup>;

R<sup>6</sup>, R<sup>60</sup>, R<sup>61</sup>, and R<sup>63</sup> are independently selected from:

- 1) C<sub>1</sub>-C<sub>6</sub> alkyl,
- 2) aryl,
- 3) R<sup>83</sup>, and
- 4) C<sub>3</sub>-C<sub>10</sub> cycloalkyl;

said alkyl, aryl, and cycloalkyl is unsubstituted, mono-substituted with R<sup>26</sup>, di-substituted with R<sup>26</sup> and R<sup>27</sup>, tri-substituted with R<sup>26</sup>, R<sup>27</sup> and R<sup>28</sup>, or tetra-substituted with R<sup>26</sup>, R<sup>27</sup>, R<sup>28</sup> and R<sup>29</sup>;

R<sup>7</sup>, R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup>, R<sup>18</sup>, R<sup>19</sup>, R<sup>20</sup>, R<sup>21</sup>, R<sup>26</sup>, R<sup>27</sup>, R<sup>28</sup>, and R<sup>29</sup> are independently selected from:

- 1) C<sub>1</sub>-C<sub>6</sub> alkyl,
- 2) halogen,
- 3) OR<sup>51</sup>,
- 4) CF<sub>3</sub>,
- 5) aryl,
- 6) C<sub>3</sub>-C<sub>10</sub> cycloalkyl,
- 7) R<sup>84</sup>,
- 8) S(O)<sub>0-2</sub>N(R<sup>51</sup>R<sup>52</sup>),
- 9) C(O)OR<sup>51</sup>,

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- 10) C(O)R<sup>51</sup>,
- 11) CN,
- 12) C(O)N(R<sup>51</sup>R<sup>52</sup>),
- 13) N(R<sup>51</sup>)C(O)R<sup>52</sup>,
- 14) S(O)<sub>0-2</sub>R<sup>63</sup>,
- 15) NO<sub>2</sub>, and
- 16) N(R<sup>51</sup>R<sup>52</sup>);

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R<sup>80</sup>, R<sup>81</sup>, R<sup>83</sup> and R<sup>84</sup> are independently selected from a group of unsubstituted or substituted heterocyclic rings consisting of a 4-6 membered unsaturated or saturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting N, O and S, and a 9- or 10-membered unsaturated or saturated bicyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting or N, O or S; and n, p, q, r, and s are independently 0, 1, 2, 3, 4, 5 or 6, provided that, when R<sup>9</sup> is hydrogen, A is substituted as defined above;

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and wherein said compound is selected from the group consisting of 7-methoxy-2,3-dimethyl-1-phenyl-2,3-dihydroquinazolin-4(1H)-one; 7-methoxy-2-methyl-4-oxo-1-phenyl-1,4-dihydroquinazolin-1-ium chloride; 2-tert-butyl-7-methoxy-1-phenylquinazolin-4(1H)-one; 2-cyclohexyl-7-methoxy-1-phenylquinazolin-4(1H)-one; and 3-Cyclopropyl-7-methoxy-1-phenylquinazoline-2,4(1H,3H)-dione.

Claim 24 (New) A pharmaceutical formulation comprising a pharmaceutically acceptable carrier and the compound of Claim 23 or a pharmaceutically acceptable crystal form or hydrate thereof.